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* * * * * Welcome to STN International * * * * *

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 09	CA/CAPplus records now contain indexing from 1907 to the present
NEWS	4	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS	5	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS	6	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS	7	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS	8	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Right Truncation
NEWS	9	AUG 18	Simultaneous left and right truncation added to ANABSTR
NEWS	10	SEP 22	DIPPR file reloaded
NEWS	11	DEC 08	INPADOC: Legal Status data reloaded
NEWS	12	SEP 29	DISSABS now available on STN
NEWS	13	OCT 10	PCTFULL: Two new display fields added
NEWS	14	OCT 21	BIOSIS file reloaded and enhanced
NEWS	15	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS	16	NOV 24	MSDS-CCOHS file reloaded
NEWS	17	DEC 08	CABA reloaded with left truncation
NEWS	18	DEC 08	IMS file names changed
NEWS	19	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS	20	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAPplus
NEWS	21	DEC 17	DGENE: Two new display fields added
NEWS	22	DEC 18	BIOTECHNO no longer updated
NEWS	23	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS	24	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS	25	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS	26	DEC 22	ABI-INFORM now available on STN
NEWS	EXPRESS		DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
NEWS	HOURS		STN Operating Hours Plus Help Desk Availability
NEWS	INTER		General Internet Information
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:22:58 ON 02 JAN 2004

=> file medline, uspatful, wpids, fsta, jicst, dgene		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 12:23:37 ON 02 JAN 2004

FILE 'USPATFULL' ENTERED AT 12:23:37 ON 02 JAN 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'WPIDS' ENTERED AT 12:23:37 ON 02 JAN 2004
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COPYRIGHT (C) 2004 Japan Science and Technology Agency (JST)

FILE 'DGENE' ENTERED AT 12:23:37 ON 02 JAN 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

=> s MAL or alpha lactalbumin
L1 15722 MAL OR ALPHA LACTALBUMIN

=> s l1 and human
L2 8274 L1 AND HUMAN

=> s l1 and oligomeric
L3 145 L1 AND OLIGOMERIC

=> s l2 and l3
L4 94 L2 AND L3

=> s l4 and molten globule
L5 7 L4 AND MOLTEN GLOBULE

=> d l5 ti abs ibib tot

L5 ANSWER 1 OF 7 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Production of **oligomeric alpha-lactalbumin**
useful for inducing apoptosis in tumor cells.

AN 1999-357815 [30] WPIDS

AB WO 9926979 A UPAB: 19990802

NOVELTY - A new method (M1) of producing a biologically active **oligomeric** form of **alpha -lactalbumin** (aLA) comprises oligomerising and stabilizing aLA in the **molten globule-like** state.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a method for producing an **oligomeric** form of aLA which comprises exposing a source of aLA to an ion exchange medium which has been pre-treated with casein or an active component and recovering aLA in an **oligomeric** form;

(2) an ion exchange medium for use in the above methods, where the medium has been treated with casein or its active components;

(3) an ion exchange column comprising the ion exchange medium of (2);

and

(4) an **oligomeric** form of aLA obtained by a method as in (M1) or (1).

USE - The **oligomeric** aLA is able to induce apoptosis in tumor cells and/or has a bactericidal effect not seen with monomeric aLA.
Dwg.0/8

ACCESSION NUMBER: 1999-357815 [30] WPIDS
DOC. NO. CPI: C1999-105891
TITLE: Production of **oligomeric alpha-lactalbumin** useful for inducing apoptosis in tumor cells.
DERWENT CLASS: B04 D16
INVENTOR(S): HAKANSSON, P A; SVANBORG, C; SVENSSON, M W
PATENT ASSIGNEE(S): (HAKA-I) HAKANSSON P A; (SVAN-I) SVANBORG C; (SVEN-I) SVENSSON M W
COUNTRY COUNT: 83
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9926979	A1	19990603	(199930)*	EN	48
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW					
AU 9912541	A	19990615	(199944)		
EP 1032596	A1	20000906	(200044)	EN	
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
JP 2001524491	W	20011204	(200203)		53

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9926979	A1	WO 1998-IB1919	19981123
AU 9912541	A	AU 1999-12541	19981123
EP 1032596	A1	EP 1998-955823	19981123
		WO 1998-IB1919	19981123
JP 2001524491	W	WO 1998-IB1919	19981123
		JP 2000-522135	19981123

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 9912541	A Based on	WO 9926979
EP 1032596	A1 Based on	WO 9926979
JP 2001524491	W Based on	WO 9926979

PRIORITY APPLN. INFO: GB 1998-12202 19980605; GB 1997-24725
19971121

L5 ANSWER 2 OF 7 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
TI Production of **oligomeric alpha-lactalbumin**
useful for inducing apoptosis in tumour cells
AN AAY18042 peptide DGENE
AB This sequence represents the N-terminus of a fragment of the
human multimeric alpha-lactalbumin (**MAL**). The invention relates to a method of producing a
biologically active **oligomeric** form of **alpha-lactalbumin** (aLA) comprises oligomerising and stabilising aLA in
the **molten globule**-like state. The **oligomeric**

aLA is able to induce apoptosis in tumour cells and/or has a bactericidal effect not seen with monomeric aLA.

ACCESSION NUMBER: AAY18042 peptide DGENE
TITLE: Production of **oligomeric alpha-lactalbumin** useful for inducing apoptosis in tumour cells
INVENTOR: Hakansson P A; Svanborg C; Svensson M W
PATENT ASSIGNEE: (HAKA-I) HAKANSSON P A.
(SVAN-I) SVANBORG C.
(SVEN-I) SVENSSON M W.
PATENT INFO: WO 9926979 A1 19990603 49p
APPLICATION INFO: WO 1998-IB1919 19981123
PRIORITY INFO: GB 1998-12202 19980605
GB 1997-24725 19971121
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 1999-357815 [30]
DESCRIPTION: Multimeric **alpha-lactalbumin** 30 kD protein N-terminal fragment.

L5 ANSWER 3 OF 7 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Production of **oligomeric alpha-lactalbumin** useful for inducing apoptosis in tumour cells

AN AAY18041 peptide DGENE

AB This sequence represents the N-terminus of a fragment of the **human** multimeric **alpha-lactalbumin** (**MAL**). The invention relates to a method of producing a biologically active **oligomeric** form of **alpha-lactalbumin** (aLA) comprises oligomerising and stabilising aLA in the **molten globule**-like state. The **oligomeric** aLA is able to induce apoptosis in tumour cells and/or has a bactericidal effect not seen with monomeric aLA.

ACCESSION NUMBER: AAY18041 peptide DGENE
TITLE: Production of **oligomeric alpha-lactalbumin** useful for inducing apoptosis in tumour cells
INVENTOR: Hakansson P A; Svanborg C; Svensson M W
PATENT ASSIGNEE: (HAKA-I) HAKANSSON P A.
(SVAN-I) SVANBORG C.
(SVEN-I) SVENSSON M W.
PATENT INFO: WO 9926979 A1 19990603 49p
APPLICATION INFO: WO 1998-IB1919 19981123
PRIORITY INFO: GB 1998-12202 19980605
GB 1997-24725 19971121
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 1999-357815 [30]
DESCRIPTION: Multimeric **alpha-lactalbumin** 14 kD protein N-terminal fragment.

L5 ANSWER 4 OF 7 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Production of **oligomeric alpha-lactalbumin** useful for inducing apoptosis in tumour cells

AN AAY18040 peptide DGENE

AB This sequence represents the N-terminus of **human alpha-lactalbumin**. The invention relates to a method of producing a biologically active **oligomeric** form of **alpha-lactalbumin** (aLA) comprises oligomerising and stabilising aLA in the **molten globule**-like state. The **oligomeric** aLA is able to induce apoptosis in tumour cells and/or has a bactericidal effect not seen with monomeric aLA.

ACCESSION NUMBER: AAY18040 peptide DGENE
TITLE: Production of **oligomeric alpha-lactalbumin** useful for inducing apoptosis in tumour

cells

INVENTOR: Hakansson P A; Svanborg C; Svensson M W

PATENT ASSIGNEE: (HAKA-I)HAKANSSON P A.
 (SVAN-I) SVANBORG C.
 (SVEN-I) SVENSSON M W.

PATENT INFO: WO 9926979 A1 19990603 49p

APPLICATION INFO: WO 1998-IB1919 19981123

PRIORITY INFO: GB 1998-12202 19980605
 GB 1997-24725 19971121

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1999-357815 [30]

DESCRIPTION: **Human alpha-lactalbumin**
 N-terminal fragment.

L5 ANSWER 5 OF 7 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Production of **oligomeric alpha-lactalbumin**
 useful for inducing apoptosis in tumour cells

AN AAY18045 peptide DGENE

AB This sequence represents the N-terminus of a fragment of the
human multimeric alpha-lactalbumin (MAL). The invention relates to a method of producing a
 biologically active **oligomeric** form of **alpha-lactalbumin** (aLA) comprises oligomerising and stabilising aLA in
 the **molten globule**-like state. The **oligomeric**
 aLA is able to induce apoptosis in tumour cells and/or has a bactericidal
 effect not seen with monomeric aLA.

ACCESSION NUMBER: AAY18045 peptide DGENE

TITLE: Production of **oligomeric alpha-lactalbumin** useful for inducing apoptosis in tumour
 cells

INVENTOR: Hakansson P A; Svanborg C; Svensson M W

PATENT ASSIGNEE: (HAKA-I)HAKANSSON P A.
 (SVAN-I) SVANBORG C.
 (SVEN-I) SVENSSON M W.

PATENT INFO: WO 9926979 A1 19990603 49p

APPLICATION INFO: WO 1998-IB1919 19981123

PRIORITY INFO: GB 1998-12202 19980605
 GB 1997-24725 19971121

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1999-357815 [30]

DESCRIPTION: Multimeric **alpha-lactalbumin** protein
 N-terminal fragment.

L5 ANSWER 6 OF 7 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Production of **oligomeric alpha-lactalbumin**
 useful for inducing apoptosis in tumour cells

AN AAY18044 peptide DGENE

AB This sequence represents the N-terminus of a fragment of the
human multimeric alpha-lactalbumin (MAL). The invention relates to a method of producing a
 biologically active **oligomeric** form of **alpha-lactalbumin** (aLA) comprises oligomerising and stabilising aLA in
 the **molten globule**-like state. The **oligomeric**
 aLA is able to induce apoptosis in tumour cells and/or has a bactericidal
 effect not seen with monomeric aLA.

ACCESSION NUMBER: AAY18044 peptide DGENE

TITLE: Production of **oligomeric alpha-lactalbumin** useful for inducing apoptosis in tumour
 cells

INVENTOR: Hakansson P A; Svanborg C; Svensson M W

PATENT ASSIGNEE: (HAKA-I)HAKANSSON P A.
 (SVAN-I) SVANBORG C.

(SVEN-I) SVENSSON M W.
 PATENT INFO: WO 9926979 A1 19990603 49p
 APPLICATION INFO: WO 1998-IB1919 19981123
 PRIORITY INFO: GB 1998-12202 19980605
 GB 1997-24725 19971121
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 OTHER SOURCE: 1999-357815 [30]
 DESCRIPTION: Multimeric **alpha-lactalbumin** 100 kD
 protein N-terminal fragment.

L5 ANSWER 7 OF 7 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 TI Production of **oligomeric alpha-lactalbumin**
 useful for inducing apoptosis in tumour cells
 AN AAY18043 peptide DGENE
 AB This sequence represents the N-terminus of a fragment of the
human multimeric **alpha-lactalbumin** (
MAL). The invention relates to a method of producing a
 biologically active **oligomeric** form of **alpha-**
lactalbumin (aLA) comprises oligomerising and stabilising aLA in
 the **molten globule**-like state. The **oligomeric**
 aLA is able to induce apoptosis in tumour cells and/or has a bactericidal
 effect not seen with monomeric aLA.

ACCESSION NUMBER: AAY18043 peptide DGENE
 TITLE: Production of **oligomeric alpha-**
lactalbumin useful for inducing apoptosis in tumour
 cells

INVENTOR: Hakansson P A; Svanborg C; Svensson M W
 PATENT ASSIGNEE: (HAKA-I) HAKANSSON P A.
 (SVAN-I) SVANBORG C.
 (SVEN-I) SVENSSON M W.

PATENT INFO: WO 9926979 A1 19990603 49p
 APPLICATION INFO: WO 1998-IB1919 19981123
 PRIORITY INFO: GB 1998-12202 19980605
 GB 1997-24725 19971121
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 OTHER SOURCE: 1999-357815 [30]
 DESCRIPTION: Multimeric **alpha-lactalbumin** 60 kD
 protein N-terminal fragment.

=> d his

(FILE 'HOME' ENTERED AT 12:22:58 ON 02 JAN 2004)

FILE 'MEDLINE, USPATFULL, WPIDS, FSTA, JICST-EPLUS, DGENE' ENTERED AT
 12:23:37 ON 02 JAN 2004

L1 15722 S MAL OR ALPHA LACTALBUMIN
 L2 8274 S L1 AND HUMAN
 L3 145 S L1 AND OLIGOMERIC
 L4 94 S L2 AND L3
 L5 7 S L4 AND MOLTEN GLOBULE

=> s casein
 L6 67420 CASEIN

=> s 16 and human milk
 L7 936 L6 AND HUMAN MILK

=> s 17 and fatty acid
 L8 118 L7 AND FATTY ACID

=> s oleic acid

L9 53303 OLEIC ACID

=> s 18 and 19

L10 49 L8 AND L9

=> s 110 and 11

L11 6 L10 AND L1

=> d 111 ti abs ibib tot

L11 ANSWER 1 OF 6 USPATFULL on STN

TI Methods and compositions for synthesis of long chain polyunsaturated fatty acids

AB The present invention relates to a **fatty acid** .DELTA.5-desaturase able to catalyze the conversion of dihomogamma-linolenic acid to arachidonic acid. Nucleic acid sequences encoding a .DELTA.5-desaturase, nucleic acid sequences which hybridize thereto, DNA constructs comprising a .DELTA.5-desaturase gene, and recombinant host microorganism or animal expressing increased levels of a .DELTA.5-desaturase are described. Methods for desaturating a **fatty acid** at the .DELTA.5 position and for producing arachidonic acid by expressing increased levels of a .DELTA.5 desaturase are disclosed. Fatty acids, and oils containing them, which have been desaturated by a .DELTA.5-desaturase produced by recombinant host microorganisms or animals are provided. Pharmaceutical compositions, infant formulas or dietary supplements containing fatty acids which have been desaturated by a .DELTA.5-desaturase produced by a recombinant host microorganism or animal also are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:183987 USPATFULL

TITLE: Methods and compositions for synthesis of long chain polyunsaturated fatty acids

INVENTOR(S): Knutzon, Deborah, Granite Bay, CA, United States
Mukerji, Pradip, Gahanna, OH, United States
Huang, Yung-Sheng, Upper Arlington, OH, United States
Thurmond, Jennifer, Columbus, OH, United States
Chaudhary, Sunita, Westerville, OH, United States
PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States
(U.S. corporation)
Calgene, LLC, Davis, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6589767	B1	20030708
APPLICATION INFO.:	US 1999-377452		19990819 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1997-833610, filed on 11 Apr 1997, now patented, Pat. No. US 5972664		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Prouty, Rebecca E.		
ASSISTANT EXAMINER:	Steadman, David		
LEGAL REPRESENTATIVE:	Bingham McCutchen LLP, Maher, David W.		
NUMBER OF CLAIMS:	22		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	23 Drawing Figure(s); 17 Drawing Page(s)		
LINE COUNT:	2012		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 2 OF 6 USPATFULL on STN

TI Methods and compositions for synthesis of long chain poly-unsaturated fatty acids

AB The present invention relates to **fatty acid**

desaturases able to catalyze the conversion of **oleic acid** to linoleic acid, linoleic acid to gamma-linolenic acid, or of alpha-linolenic acid to stearidonic acid. Nucleic acid sequences encoding desaturases, nucleic acid sequences which hybridize thereto, DNA constructs comprising a desaturase gene, and recombinant host microorganism or animal expressing increased levels of a desaturase are described. Methods for desaturating a **fatty acid** and for producing a desaturated **fatty acid** by expressing increased levels of a desaturase are disclosed. Fatty acids, and oils containing them, which have been desaturated by a desaturase produced by recombinant host microorganisms or animals are provided. Pharmaceutical compositions, infant formulas or dietary supplements containing fatty acids which have been desaturated by a desaturase produced by a recombinant host microorganism or animal also are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:152436 USPATFULL
 TITLE: Methods and compositions for synthesis of long chain poly-unsaturated fatty acids
 INVENTOR(S): Knutzon, Deborah, Granite Bay, CA, United States
 Mukerji, Pradip, Gahanna, OH, United States
 Huang, Yung-Sheng, Upper Arlington, OH, United States
 Thurmond, Jennifer, Columbus, OH, United States
 Chaudhary, Sunita, Westerville, OH, United States
 PATENT ASSIGNEE(S): Calgene, Inc., St. Louis, MO, United States (U.S. corporation)
 Abbott Laboratories, Abbott Park, IL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6410288	B1	20020625
APPLICATION INFO.:	US 1999-363526		19990729 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1997-834655, filed on 11 Apr 1997, now patented, Pat. No. US 5968809		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Nashed, Nashaat T.		
LEGAL REPRESENTATIVE:	McCutchen, Doyle, Brown & Enersen, LLP		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	19 Drawing Figure(s); 16 Drawing Page(s)		
LINE COUNT:	2246		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 3 OF 6 USPATFULL on STN

TI Methods and compositions for synthesis of long chain polyunsaturated fatty acids

AB The present invention relates to **fatty acid** desaturases able to catalyze the conversion of **oleic acid** to linoleic acid, linoleic acid to gamma-linolenic acid, or of alpha-linolenic acid to stearidonic acid. Nucleic acid sequences encoding desaturases, nucleic acid sequences which hybridize thereto, DNA constructs comprising a desaturase gene, and recombinant host microorganism or animal expressing increased levels of a desaturase are described. Methods for desaturating a **fatty acid** and for producing a desaturated **fatty acid** by expressing increased levels of a desaturase are disclosed. Fatty acids, and oils containing them, which have been desaturated by a desaturase produced by recombinant host microorganisms or animals are provided. Pharmaceutical compositions, infant formulas or dietary supplements containing fatty acids which have been desaturated by a desaturase produced by a recombinant host microorganism or animal also are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2000:142141 USPATFULL
TITLE: Methods and compositions for synthesis of long chain
polyunsaturated fatty acids
INVENTOR(S): Knutzon, Deborah, Granite Bay, CA, United States
Mukerji, Pradip, Gahanna, OH, United States
Huang, Yung-Sheng, Upper Arlington, OH, United States
Thurmond, Jennifer, Columbus, OH, United States
Chaudhary, Sunita, Pearland, TX, United States
PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States
(U.S. corporation)
Calgene LLC, Davis, CA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6136574		20001024
APPLICATION INFO.:	US 1999-363574		19990729 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1997-834655, filed on 11 Apr 1997, now patented, Pat. No. US 5968809		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Nashed, Nashaat T.		
LEGAL REPRESENTATIVE:	Limbach & Limbach L.L.P.		
NUMBER OF CLAIMS:	22		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	18 Drawing Figure(s); 16 Drawing Page(s)		
LINE COUNT:	2383		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 4 OF 6 USPATFULL on STN

TI Methods and compositions for synthesis of long chain poly-unsaturated
fatty acids
AB The present invention relates to a **fatty acid**
.DELTA.5-desaturase able to catalyze the conversion of
dihomo-gamma-linolenic acid to arachidonic acid. Nucleic acid sequences
encoding a .DELTA.5-desaturase, nucleic acid sequences which hybridize
thereto, DNA constructs comprising a .DELTA.5-desaturase gene, and
recombinant host microorganism or animal expressing increased levels of
a .DELTA.5-desaturase are described. Methods for desaturating a
fatty acid at the .DELTA.5 position and for producing
arachidonic acid by expressing increased levels of a .DELTA.5 desaturase
are disclosed. Fatty acids, and oils containing them, which have been
desaturated by a .DELTA.5-desaturase produced by recombinant host
microorganisms or animals are provided. Pharmaceutical compositions,
infant formulas or dietary supplements containing fatty acids which have
been desaturated by a .DELTA.5-desaturase produced by a recombinant host
microorganism or animal also are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:132553 USPATFULL
TITLE: Methods and compositions for synthesis of long chain
poly-unsaturated fatty acids
INVENTOR(S): Knutzon, Deborah, Granite Bay, CA, United States
Mukerji, Pradip, Grahanna, OH, United States
Huang, Yung-Sheng, Arlington, OH, United States
Thurmond, Jennifer, Columbus, OH, United States
Chaudhary, Sunita, Westerville, OH, United States
PATENT ASSIGNEE(S): Abbott Laboratories, Abbott Park, IL, United States
(U.S. corporation)
Calgene, Inc., Davis, CA, United States (U.S.
corporation)

NUMBER	KIND	DATE
--------	------	------

PATENT INFORMATION: US 5972664 19991026
 APPLICATION INFO.: US 1997-833610 19970411 (8)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Achutamurthy, Ponnathapu
 ASSISTANT EXAMINER: Mayhew, Bradley S.
 LEGAL REPRESENTATIVE: Limbach & Limbach, L.L.P.
 NUMBER OF CLAIMS: 52
 EXEMPLARY CLAIM: 34
 NUMBER OF DRAWINGS: 21 Drawing Figure(s); 17 Drawing Page(s)
 LINE COUNT: 2089
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 5 OF 6 USPATFULL on STN

TI Methods and compositions for synthesis of long chain poly-unsaturated fatty acids
 AB The present invention relates to **fatty acid** desaturases able to catalyze the conversion of **oleic acid** to linoleic acid, linoleic acid to gamma-linolenic acid, or of alpha-linolenic acid to stearidonic acid. Nucleic acid sequences encoding desaturases, nucleic acid sequences which hybridize thereto, DNA constructs comprising a desaturase gene, and recombinant host microorganism or animal expressing increased levels of a desaturase are described. Methods for desaturating a **fatty acid** and for producing a desaturated **fatty acid** by expressing increased levels of a desaturase are disclosed. Fatty acids, and oils containing them, which have been desaturated by a desaturase produced by recombinant host microorganisms or animals are provided. Pharmaceutical compositions, infant formulas or dietary supplements containing fatty acids which have been desaturated by a desaturase produced by a recombinant host microorganism or animal also are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:128425 USPATFULL
 TITLE: Methods and compositions for synthesis of long chain poly-unsaturated fatty acids
 INVENTOR(S): Knutzon, Deborah, Granite Bay, CA, United States
 Mukerji, Pradip, Gahanna, OH, United States
 Huang, Yung-Sheng, Upper Arlington, OH, United States
 Thurmond, Jennifer, Columbus, OH, United States
 Chaudhary, Sunita, Westerville, OH, United States
 PATENT ASSIGNEE(S): Abbot Laboratories, Abbot Park, IL, United States (U.S. corporation)
 Calgene Inc., Davis, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5968809		19991019
APPLICATION INFO.:	US 1997-834655		19970411 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Achutamurthy, Ponnathapura		
ASSISTANT EXAMINER:	Nashed, Nashaat T.		
LEGAL REPRESENTATIVE:	Limbach & Limbach L.L.P.		
NUMBER OF CLAIMS:	30		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	18 Drawing Figure(s); 16 Drawing Page(s)		
LINE COUNT:	2362		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 6 OF 6 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI Production of oligomeric **alpha-lactalbumin** useful for

inducing apoptosis in tumor cells.

AN 1999-357815 [30] WPIDS

AB WO 9926979 A UPAB: 19990802

NOVELTY - A new method (M1) of producing a biologically active oligomeric form of **alpha-lactalbumin** (aLA) comprises oligomerising and stabilizing aLA in the molten globule-like state.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a method for producing an oligomeric form of aLA which comprises exposing a source of aLA to an ion exchange medium which has been pre-treated with **casein** or an active component and recovering aLA in an oligomeric form;

(2) an ion exchange medium for use in the above methods, where the medium has been treated with **casein** or its active components;

(3) an ion exchange column comprising the ion exchange medium of (2); and

(4) an oligomeric form of aLA obtained by a method as in (M1) or (1).

USE - The oligomeric aLA is able to induce apoptosis in tumor cells and/or has a bactericidal effect not seen with monomeric aLA.

Dwg.0/8

ACCESSION NUMBER: 1999-357815 [30] WPIDS

DOC. NO. CPI: C1999-105891

TITLE: Production of oligomeric **alpha-lactalbumin** useful for inducing apoptosis in tumor cells.

DERWENT CLASS: B04 D16

INVENTOR(S): HAKANSSON, P A; SVANBORG, C; SVENSSON, M W

PATENT ASSIGNEE(S): (HAKA-I) HAKANSSON P A; (SVAN-I) SVANBORG C; (SVEN-I) SVENSSON M W

COUNTRY COUNT: 83

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9926979	A1	19990603	(199930)*	EN	48
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL					
OA PT SD SE SZ UG ZW					
W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE					
GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG					
MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG					
US UZ VN YU ZW					
AU 9912541	A	19990615	(199944)		
EP 1032596	A1	20000906	(200044)	EN	
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
JP 2001524491	W	20011204	(200203)		53

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9926979	A1	WO 1998-IB1919	19981123
AU 9912541	A	AU 1999-12541	19981123
EP 1032596	A1	EP 1998-955823	19981123
		WO 1998-IB1919	19981123
JP 2001524491	W	WO 1998-IB1919	19981123
		JP 2000-522135	19981123

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 9912541	A Based on	WO 9926979
EP 1032596	A1 Based on	WO 9926979
JP 2001524491	W Based on	WO 9926979

PRIORITY APPLN. INFO: GB 1998-12202 19980605; GB 1997-24725
19971121

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Search Results -

Terms	Documents
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Database:

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 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

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L5

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DATE: Friday, January 02, 2004 [Printable Copy](#) [Create Case](#)

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result set

DB=USPT; PLUR=YES; OP=OR

<u>L5</u>	L4 and l3	8	<u>L5</u>
<u>L4</u>	molten globule	126281	<u>L4</u>
<u>L3</u>	L2 and human	67	<u>L3</u>
<u>L2</u>	L1 and oligomeric	103	<u>L2</u>
<u>L1</u>	alpha-lactalbumin or MAL	3993	<u>L1</u>

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 6593349 B2

L5: Entry 1 of 8

File: USPT

Jul 15, 2003

US-PAT-NO: 6593349

DOCUMENT-IDENTIFIER: US 6593349 B2

TITLE: Bisarylamines as potassium channel openers

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McNaughton-Smith; Grant Andrew	Morrisville	NC		
Amato; George Salvatore	Cary	NC		

US-CL-CURRENT: 514/333; 514/256, 514/338, 514/373, 514/379, 514/405, 544/333,
546/256, 546/271.1, 546/272.1, 546/275.7, 548/213, 548/246, 548/362.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	References	Attachment	Claims	KWIC	Draw De
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☐ 2. Document ID: US 6495550 B2

L5: Entry 2 of 8

File: USPT

Dec 17, 2002

US-PAT-NO: 6495550

DOCUMENT-IDENTIFIER: US 6495550 B2

TITLE: Pyridine-substituted benzanilides as potassium ion channel openers

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McNaughton-Smith; Grant	Morrisville	NC		
Fritch; Paul Christopher	Durham	NC		
Amato; George Salvatore	Cary	NC		

US-CL-CURRENT: 514/235.5; 514/255.05, 514/256, 514/332, 514/336, 514/341, 514/343,
514/352, 544/124, 544/333, 544/405, 546/255, 546/272.7, 546/276.4, 546/283.4,
546/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw D
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☐ 3. Document ID: US 6391946 B2

L5: Entry 3 of 8

File: USPT

May 21, 2002

US-PAT-NO: 6391946

DOCUMENT-IDENTIFIER: US 6391946 B2

TITLE: Rigid polymeric beverage bottles with improved resistance to permeant elution

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wood; Willard E.	Arden Hills	MN		
Beaverson; Neil J.	Hugo	MN		

US-CL-CURRENT: 524/48; 206/524.3, 206/524.4, 206/524.6, 215/12.1, 215/12.2, 215/371, 220/323, 220/906

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw D
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☐ 4. Document ID: US 6335170 B1

L5: Entry 4 of 8

File: USPT

Jan 1, 2002

US-PAT-NO: 6335170

DOCUMENT-IDENTIFIER: US 6335170 B1

TITLE: Gene expression in bladder tumors

DATE-ISSUED: January 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Orntoft; Torben F.	DK 8230 Aabyhoj			DK

US-CL-CURRENT: 435/6; 435/91.1, 435/91.2, 536/23.1, 536/24.3, 536/24.31, 536/24.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw D
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☐ 5. Document ID: US 6306936 B1

L5: Entry 5 of 8

File: USPT

Oct 23, 2001

US-PAT-NO: 6306936

DOCUMENT-IDENTIFIER: US 6306936 B1

h e b b g e e f e h ef b e

TITLE: Rigid polymeric beverage bottles with improved resistance to permeant elution

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wood; Willard E.	Arden Hills	MN		
Beaverson; Neil J.	Hugo	MN		

US-CL-CURRENT: 524/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw De
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☐ 6. Document ID: US 6136354 A

L5: Entry 6 of 8

File: USPT

Oct 24, 2000

US-PAT-NO: 6136354

DOCUMENT-IDENTIFIER: US 6136354 A

**** See image for Certificate of Correction ****

TITLE: Rigid polymeric beverage bottles with improved resistance to permeant elution

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wood; Willard E.	Arden Hills	MN		
Beaverson; Neil J.	Hugo	MN		

US-CL-CURRENT: 426/323; 206/524.3, 206/524.4, 215/371, 220/906, 426/397, 426/415, 524/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw De
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☐ 7. Document ID: US 6124308 A

L5: Entry 7 of 8

File: USPT

Sep 26, 2000

US-PAT-NO: 6124308

DOCUMENT-IDENTIFIER: US 6124308 A

TITLE: Optically active phenyl pyrimidine derivatives as analgesic agent

DATE-ISSUED: September 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Nobbs; Malcolm Stuart Stevenage GB
Rodgers; Sandra Jane Dartford GB

US-CL-CURRENT: 514/275; 544/223, 544/322, 544/325

Full	Title	Citation	Front	Review	Classification	Date	Reference	Attachments	Claims	KMC	Draw De
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☐ 8. Document ID: US 5837339 A

L5: Entry 8 of 8

File: USPT

Nov 17, 1998

US-PAT-NO: 5837339

DOCUMENT-IDENTIFIER: US 5837339 A

**** See image for Certificate of Correction ****

TITLE: Rigid polymeric beverage bottles with improved resistance to permeant elution

DATE-ISSUED: November 17, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wood; Willard E.	Arden Hills	MN		
Beaverson; Neil J.	Hugo	MN		

US-CL-CURRENT: 428/36.6; 215/12.1, 215/12.2, 428/35.4, 428/36.7, 428/483, 428/518,
428/520, 428/522, 524/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Attachments	Claims	KMC	Draw De
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☐ 21. Document ID: US 6335170 B1

L3: Entry 21 of 67

File: USPT

Jan 1, 2002

US-PAT-NO: 6335170

DOCUMENT-IDENTIFIER: US 6335170 B1

TITLE: Gene expression in bladder tumors

DATE-ISSUED: January 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Orntoft; Torben F.	DK 8230 Aabyhoj			DK

US-CL-CURRENT: 435/6; 435/91.1, 435/91.2, 536/23.1, 536/24.3, 536/24.31, 536/24.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 22. Document ID: US 6306936 B1

L3: Entry 22 of 67

File: USPT

Oct 23, 2001

US-PAT-NO: 6306936

DOCUMENT-IDENTIFIER: US 6306936 B1

TITLE: Rigid polymeric beverage bottles with improved resistance to permeant elution

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wood; Willard E.	Arden Hills	MN		
Beaverson; Neil J.	Hugo	MN		

US-CL-CURRENT: 524/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 23. Document ID: US 6258359 B1

L3: Entry 23 of 67

File: USPT

Jul 10, 2001

US-PAT-NO: 6258359

DOCUMENT-IDENTIFIER: US 6258359 B1

**** See image for Certificate of Correction ****

TITLE: Immunogenic compositions against helicobacter infection, polypeptides for use in the compositions, and nucleic acid sequences encoding said polypeptides

DATE-ISSUED: July 10, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Labigne; Agnes	Bures sur Yvette			FR
Suerbaum; Sebastian	Veitshochheim			DE
Ferrero; Richard L.	Paris			FR
Thiberge; Jean-Michel	Plaisir			FR

US-CL-CURRENT: 424/141.1; 424/150.1, 424/163.1, 424/164.1, 530/350, 530/388.1, 530/388.2, 530/388.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Examination	Attachments	Claims	KMMC	Draw De
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☐ 24. Document ID: US 6248330 B1

L3: Entry 24 of 67

File: USPT

Jun 19, 2001

US-PAT-NO: 6248330

DOCUMENT-IDENTIFIER: US 6248330 B1

**** See image for Certificate of Correction ****

TITLE: Immunogenic compositions against helicobacter infection, polypeptides for use in the compositions, and nucleic acid sequences encoding said polypeptides

DATE-ISSUED: June 19, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Labigne; Agnes	Bures sur Yvette			FR
Suerbaum; Sebastien	Bochum			DE
Ferrero; Richard L.	Paris			FR
Thiberge; Jean-Michel	Plaisir			FR

US-CL-CURRENT: 424/192.1; 424/184.1, 424/234.1, 435/6, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Examination	Attachments	Claims	KMMC	Draw De
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☐ 25. Document ID: US 6228983 B1

L3: Entry 25 of 67

File: USPT

May 8, 2001

US-PAT-NO: 6228983

DOCUMENT-IDENTIFIER: US 6228983 B1

**** See image for Certificate of Correction ****TITLE: Human respiratory syncytial virus peptides with antifusogenic and antiviral activities

DATE-ISSUED: May 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barney; Shawn O'Lin	Cary	NC		
Lambert; Dennis Michael	Cary	NC		
Petteway; Stephen Robert	Cary	NC		

US-CL-CURRENT: 530/300; 424/186.1, 424/211.1, 530/324, 530/325, 530/326

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KMC	Draw De
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☐ 26. Document ID: US 6225071 B1

L3: Entry 26 of 67

File: USPT

May 1, 2001

US-PAT-NO: 6225071

DOCUMENT-IDENTIFIER: US 6225071 B1

TITLE: Methods of screening for compounds which mimic galectin-1

DATE-ISSUED: May 1, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cummings; Richard D.	Edmond	OK		
Cho; Moon-Jae	Oklahoma City	OK		

US-CL-CURRENT: 435/7.24; 435/18, 435/375

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KMC	Draw De
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☐ 27. Document ID: US 6204008 B1

L3: Entry 27 of 67

File: USPT

Mar 20, 2001

US-PAT-NO: 6204008

DOCUMENT-IDENTIFIER: US 6204008 B1

TITLE: Bioprocess for production of dipeptide based compounds

DATE-ISSUED: March 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Borneman; W. Scott	San Carlos	CA		
Goyal; Anil	New Brunswick	NJ		
Conder; Michael J.	McGaheysville	VA		
Vinci; Victor A.	Charlottesville	VA		

US-CL-CURRENT: 435/69.1; 435/219, 435/220, 435/252.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Attachments	Claims	KWMC	Draw De
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☐ 28. Document ID: US 6153596 A

L3: Entry 28 of 67

File: USPT

Nov 28, 2000

US-PAT-NO: 6153596

DOCUMENT-IDENTIFIER: US 6153596 A

**** See image for Certificate of Correction ****

TITLE: Polycationic oligomers

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liotta; Dennis C.	McDonough	GA		
Petros; John A.	Norcross	GA		
Wey; Shiow-Jyi	Woburn	MA		
Karr; Joan F.	Decatur	GA		
Pohl; Jan	Doraville	GA		

US-CL-CURRENT: 514/44; 435/6, 435/69.1, 435/91.1, 435/91.3, 514/1, 536/22.1,
536/23.1, 536/24.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Attachments	Claims	KWMC	Draw De
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☐ 29. Document ID: US 6136354 A

L3: Entry 29 of 67

File: USPT

Oct 24, 2000

US-PAT-NO: 6136354

DOCUMENT-IDENTIFIER: US 6136354 A

**** See image for Certificate of Correction ****

TITLE: Rigid polymeric beverage bottles with improved resistance to permeant elution

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wood; Willard E.	Arden Hills	MN		
Beaverson; Neil J.	Hugo	MN		

US-CL-CURRENT: 426/323; 206/524.3, 206/524.4, 215/371, 220/906, 426/397, 426/415,
524/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Figures	Abstracts	Claims	KIMC	Draw De
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☐ 30. Document ID: US 6124308 A

L3: Entry 30 of 67

File: USPT

Sep 26, 2000

US-PAT-NO: 6124308

DOCUMENT-IDENTIFIER: US 6124308 A

TITLE: Optically active phenyl pyrimidine derivatives as analgesic agent

DATE-ISSUED: September 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nobbs; Malcolm Stuart	Stevenage			GB
Rodgers; Sandra Jane	Dartford			GB

US-CL-CURRENT: 514/275; 544/223, 544/322, 544/325

Full	Title	Citation	Front	Review	Classification	Date	Reference	Figures	Abstracts	Claims	KIMC	Draw De
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